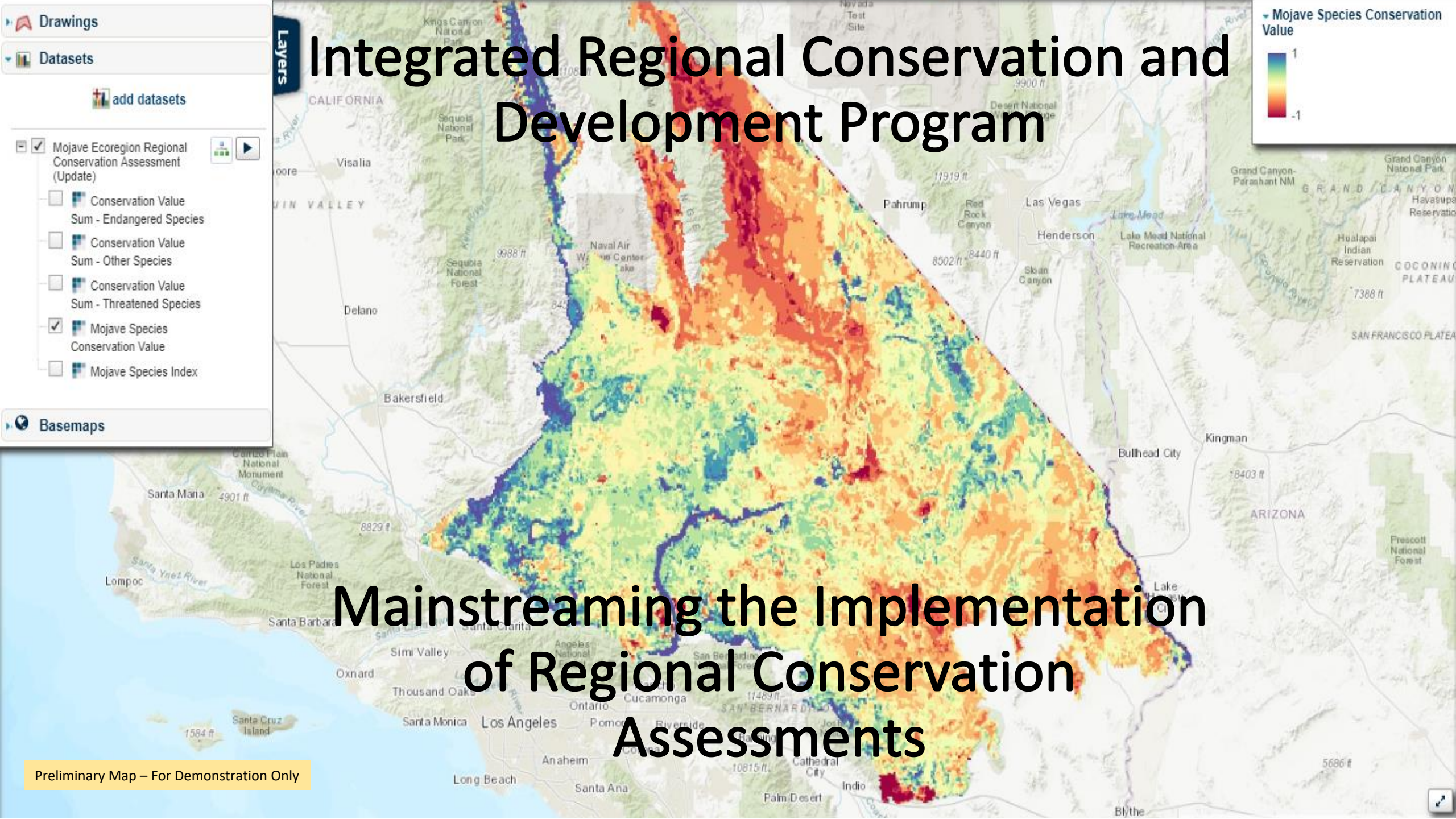

Drawings
Datasets
add datasets
Mojave Ecoregion Regional Conservation Assessment (Update)
Conservation Value Sum - Endangered Species
Conservation Value Sum - Other Species
Conservation Value Sum - Threatened Species
Mojave Species Conservation Value
Mojave Species Index
Basemaps
Layers
Mojave Species Conservation Value
1
-1
Integrated Regional Conservation and Development Program
Mainstreaming the Implementation of Regional Conservation Assessments
Preliminary Map – For Demonstration Only
CALIFORNIA
Visalia
Delano
Bakersfield
Santa Maria
Santa Barbara
Lompoc
Simi Valley
Oxnard
Thousand Oaks
Santa Monica
Los Angeles
Anaheim
Long Beach
Santa Ana
Ontario
Cucamonga
Riverside
Palm Desert
Indio
Cathedral City
Pahrump
Las Vegas
Henderson
Lake Mead National Recreation Area
Bullhead City
Kingman
ARIZONA
Grand Canyon National Park
Grand Canyon-Parashant NM
Havasupai Reservation
Hualapai Indian Reservation
Prescott National Forest
Sequoia National Forest
Los Padres National Forest
Channel Islands National Monument
Santa Cruz Island
Naval Air Weapons Center China Lake
Red Rock Canyon
Sloan Canyon
Desert National Wildlife Range
Nevada Test Site
Lake Mead
Kings Canyon National Park
SAN FRANCISCO PLATEAU
COCONINO PLATEAU
GRAND CANYON

Integrated Regional Conservation and Development Program:

Promoting the sustainable balance of regional development and conservation, and the data and tools to implement this vision.

Regional Conservation Assessment

Inform Project Planning to Avoid and Minimize Environmental Impacts

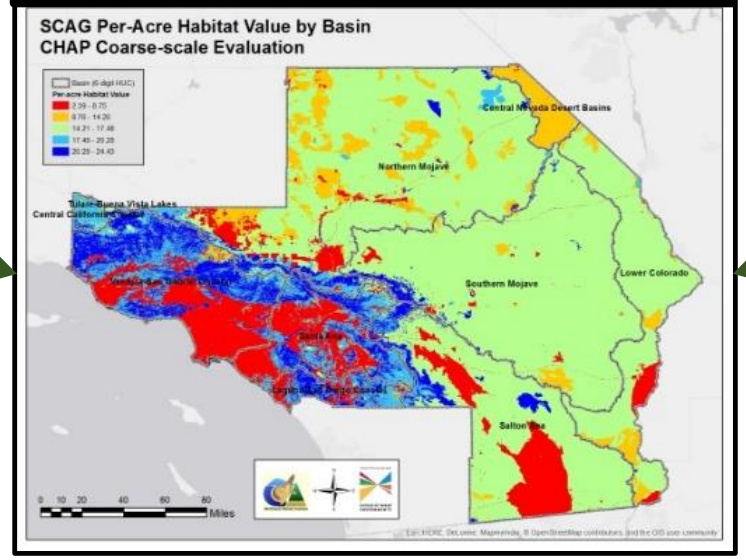
Tools: Siting and Implementation

Inform Project Mitigation to Advance Regional Conservation Goals

Tools: Stewardship, Acquisition, Restoration

Regional Development Plan

Integrated Vision and Plan



Two Year Action Plan (from 1/2016)

The SGC has been working with the California Biodiversity Council (CBC), particularly the Interagency Alignment Team (IAT), to advance this initiative.

Activity 1. Framework and Standards

- Develop and document standards and methods for the implementation of the IRCAD program in California.

Activity 2. Project Implementation

- Promote the development of regional conservation assessments to demonstrate the process and value of this approach**.**

Activity 3. Information and Technology Support

- Implement a technology platform that will support the development, integration, analysis of application of data to advance the implementation of IRCAD project objectives.

Activity 4. Policy and Fiscal Strategies

- Identify and advance financial and policy strategies to support the implementation and institutionalization of IRCAD.

Discussion Questions

We want your input regarding the future of RCAs and the IRCAD initiative. Please consider the following points during this presentation, for discussion during the next session.

1. What is most useful about standardized Regional Conservation Assessments and the IRCAD approach?

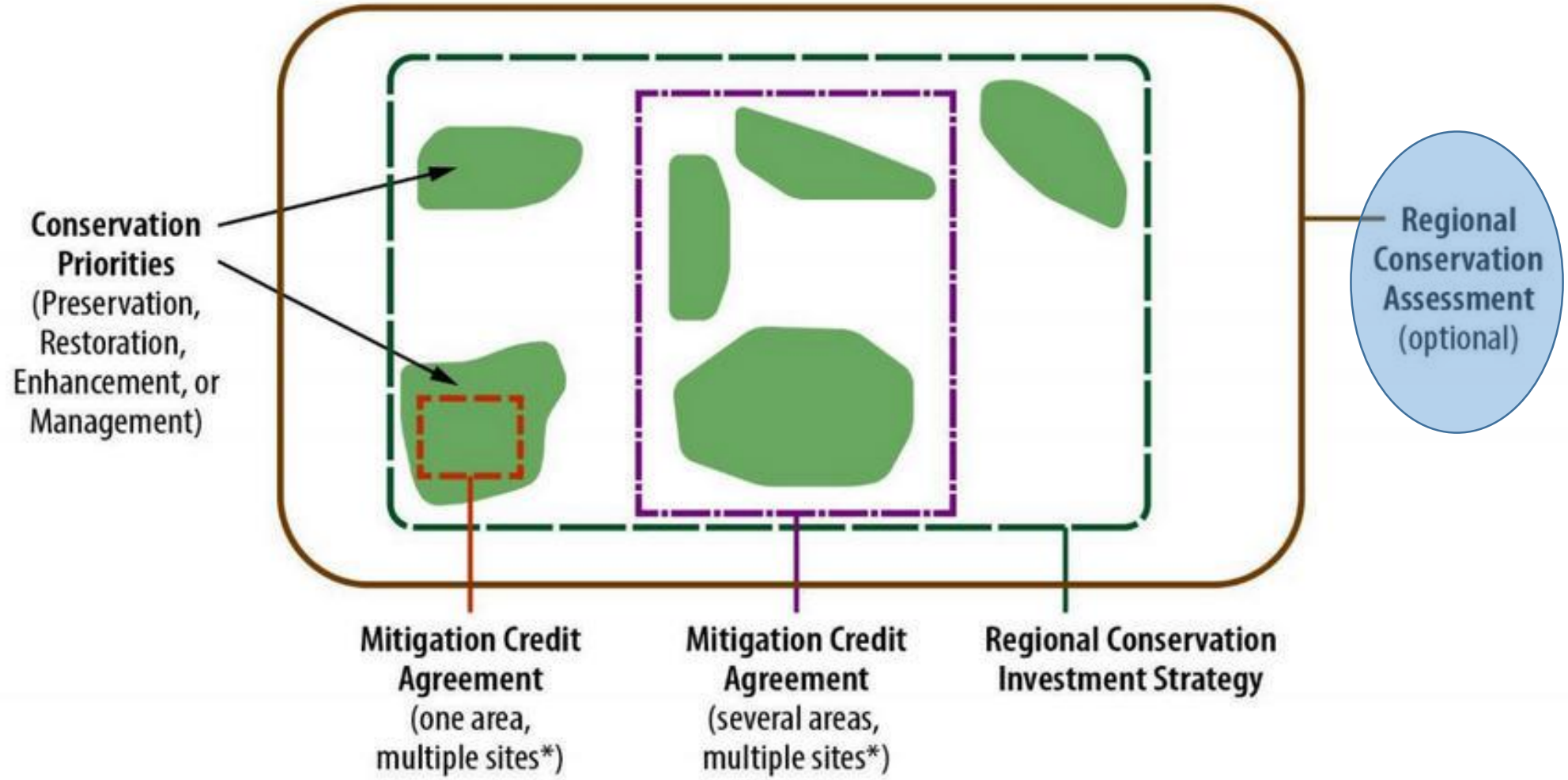
2. What are impediments to carrying out Regional Conservation Assessments across the State?

3. How can RCAs be improved and brought into practice?

4. How can your organization help to mainstream the implementation of RCAs?

AB 2087

Program Framework: On the Ground



Wildlife Conservation Board: RCA Demonstration Project

Project deliverables include:

- Standardized RCA methodology that is tested and refined through implementation in two demonstration ecoregions.
- Biodiversity and Conservation Value Dataset to provide the foundation for conservation assessment and planning.
- Technology Platform to explore and identify areas of greatest conservation value for selected targets.
- Information Context to select areas with high probability of long term conservation success and associated ecosystem service co-benefits.
- Evaluation and Reporting Tools to demonstrate the effectiveness of specific sites and projects to achieve conservation goals.

Partners and Contributors

IRCAD Inter-agency Working Group

- Strategic Growth Council
- California Department of fish and Wildlife
- Caltrans
- California Energy Commission
- US Fish and Wildlife Service
- California Department of Conservation
- California Department of Water Resources
- The Nature Conservancy
- UC Davis

WCB Project Partners

- Strategic Growth Council
- Conservation Biology Institute
- UC Davis
- California Energy Commission
- California Department of Fish and Wildlife

Mojave Conservation Targets: Approximately 400

1. Species
   - Federal: Endangered, Threatened, Rare, Candidate “T or E”
   - State: Endangered, Threatened, Rare, Candidate “T or E”
   - CDFW Status: SWAP, Rare, Watch List, and Fully Protected
   - CNPS Plant Ranks of 1B or 2B
   - All S1, S2, G1, G2 Ranks
   - Focal species from existing NCCPs, HCPs, etc. (e.g., DRECP and Antelope Valley RCIS)
2. Vegetation Types
   - S1 and S2 Alliances
3. Other Special Ecosystems/Habitats
   - Wetlands
   - Other

Mojave Conservation Targets: Species

Agelaius tricolor	tricolored blackbird	Inside	Mapped		Y		Y	
Anaxyrus californicus	arroyo toad	Inside	Mapped			Y		
Antrozous pallidus	Pallid bat	Inside	Mapped		Y		Y	
Asio otus	Long-eared owl	Inside	Mapped		Y			
Astragalus jaegerianus	Lane Mountain milk-vetch	Inside	Mapped			Y		Y
Astragalus tricarinatus	triple-ribbed milk-vetch	Inside	Mapped			Y		Y
Athene cunicularia	Burrowing owl	Inside	Mapped		Y			
Batrachoseps stebbinsi	Tehachapi slender salamander	Inside	Mapped				Y	
Buteo swainsoni	Swainson's hawk	Inside	Mapped		Y		Y	
Catostomus fumeiventris	Owens sucker	Inside	Mapped					
Charadrius montanus	mountain plover	Inside	Mapped		Y	Y	Y	
Circus cyaneus	Northern harrier	Inside	Mapped		Y			
Coccyzus americanus occidentalis	Western yellow-billed cuckoo	Inside	Mapped		Y			
Colaptes chrysoides	Gilded flicker	Inside	Mapped		Y			
Corynorhinus townsendii	Townsend's big-eared bat	Inside	Mapped		Y		Y	
Cyprinodon radiosus	Owens pupfish	Inside	Mapped				Y	
Deinandra mohavensis	Mojave tarplant	Inside	Mapped				Y	
Empidonax traillii extimus	Southwestern willow flycatcher	Inside	Mapped		Y	Y	Y	
Erigeron parishii	Parish's daisy	Inside	Mapped				Y	Y
Gila orcuttii	arroyo chub	Inside	Mapped					
Gopherus agassizii	desert tortoise	Inside	Mapped		Y	Y	Y	
Grindelia fraxinipratensis	Ash Meadows gumplant	Inside	Mapped			Y		Y
Gymnogyps californianus	California condor	Inside	Mapped		Y			
Lanius ludovicianus	Loggerhead shrike	Inside	Mapped		Y			
Macrotus californicus	California leaf-nosed bat	Inside	Mapped				Y	
Micrathene whitneyi	Elf owl	Inside	Mapped		Y			
Microtus californicus mohavensis	Mohave river vole	Inside	Mapped		Y			
Ovis canadensis nelsoni	Desert bighorn sheep	Inside	Mapped		Y		Y	
Perognathus alticolus inexpectatus	Tehachapi pocket mouse	Inside	Mapped		Y		Y	
Perognathus inornatus neglectus	McKittrick pocket mouse	Inside	Mapped					
Perognathus parvus xanthanotus	Yellow-eared pocket mouse	Inside	Mapped		Y			

Mojave Conservation Targets: Vegetation Types

Ecosystems			
Scientific Name	**Common Name**	**Mojave Name**	**State Rank**
Spartina gracilis	Alkali cordgrass marsh	Southwestern North American alkali marsh/seep vegetation	S1
Sporobolus airoides	Alkali sacaton grassland	Sporobolus airoides	S2.2
Hilaria rigida	Big galleta shrub-steppe	Pleuraphis rigida	S2.2
Fremontodendron californicum	California flannelbush	Fremontodendron californicum	S2
Castela emoryi	Crucifixion thorn stands	Castela emoryi	S1.1
Ephedra funerea	Death Valley joint fir scrub	Ephedra funerea	S2.3??
Muhlenbergia rigens	Deer grass beds		S2?
Dicoria canescens - Abronia villosa	Desert dunes	Dicoria canescens - Abronia villosa	S2.2
Stipa speciosa	Desert needlegrass grassland	Achnatherum speciosum	S2.2
Forestiera pubescens	Desert olive patches	Forestiera pubescens	S2.2
Panicum urvilleanum	Desert panic grass patches	Panicum urvilleanum	S1.2
Salvia dorrii	Desert purple sage scrub		S2.3
Ruppia (cirrhosa, maritima)	Ditch-grass or widgeon-grass mats	Southwestern North American alkali marsh/seep vegetation	S2
Parkinsonia microphylla	Foothill palo verde desert scrub	Parkinsonia microphylla	S1.2
Ziziphus obtusifolia	Graythorn patches		S2?
Tetracoccus hallii	Hall's shrubby-spurge patches	Tetracoccus hallii	S1.1
Eriogonum heermannii	Heermann's buckwheat patches		S2?
Stipa hymenoides	Indian rice grass grassland	Achnatherum hymenoides	S1.2
Juncus xiphioides	Iris-leaf rush seeps		S2?
Hilaria jamesii	James' galleta shrub-steppe		S2.2
Nolina (bigelovii, parryi)	Nolina scrub	Intermountain shallow/calcareous soil scrub	S2.2
Prosopis pubescens	Screwbean mesquite bosques		S2.2
Quercus turbinella	Sonoran live oak scrub		S1.3
Pinus edulis	Two-needle pinyon stands		S2?
Betula occidentalis	Water birch thicket		S2.2
Sesuvium verrucosum	Western sea-purslane marshes	Southwestern North American alkali marsh/seep vegetation	S2.2?
Krascheninnikovia lanata	Winterfat scrubland	Krascheninnikovia lanata	S2
Anemopsis californica	Yerba mansa meadows	Southwestern North American alkali marsh/seep vegetation	S2?

Mojave Conservation Targets: Special Habitats

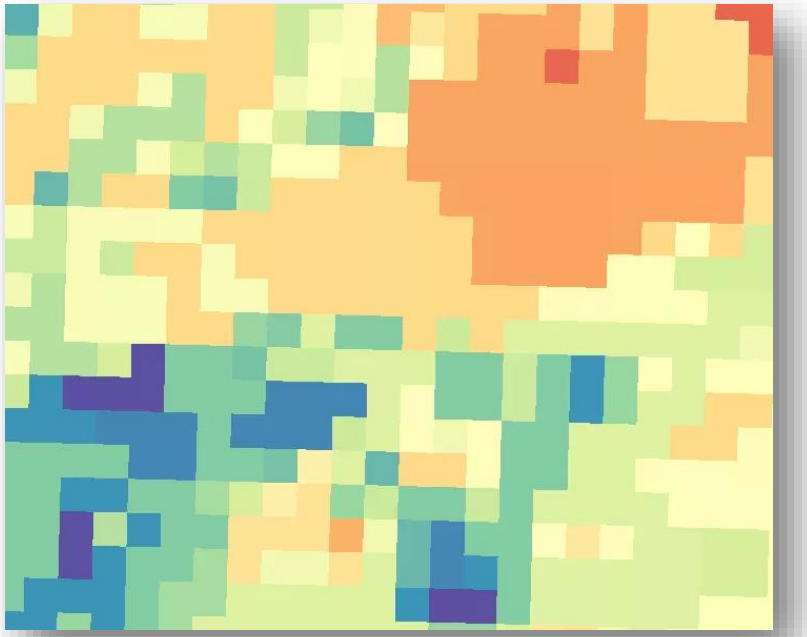
Dunes and Sand Sources

Springs and Seeps

Caves, Mines, and Cliffs

Conservation Value Modeling

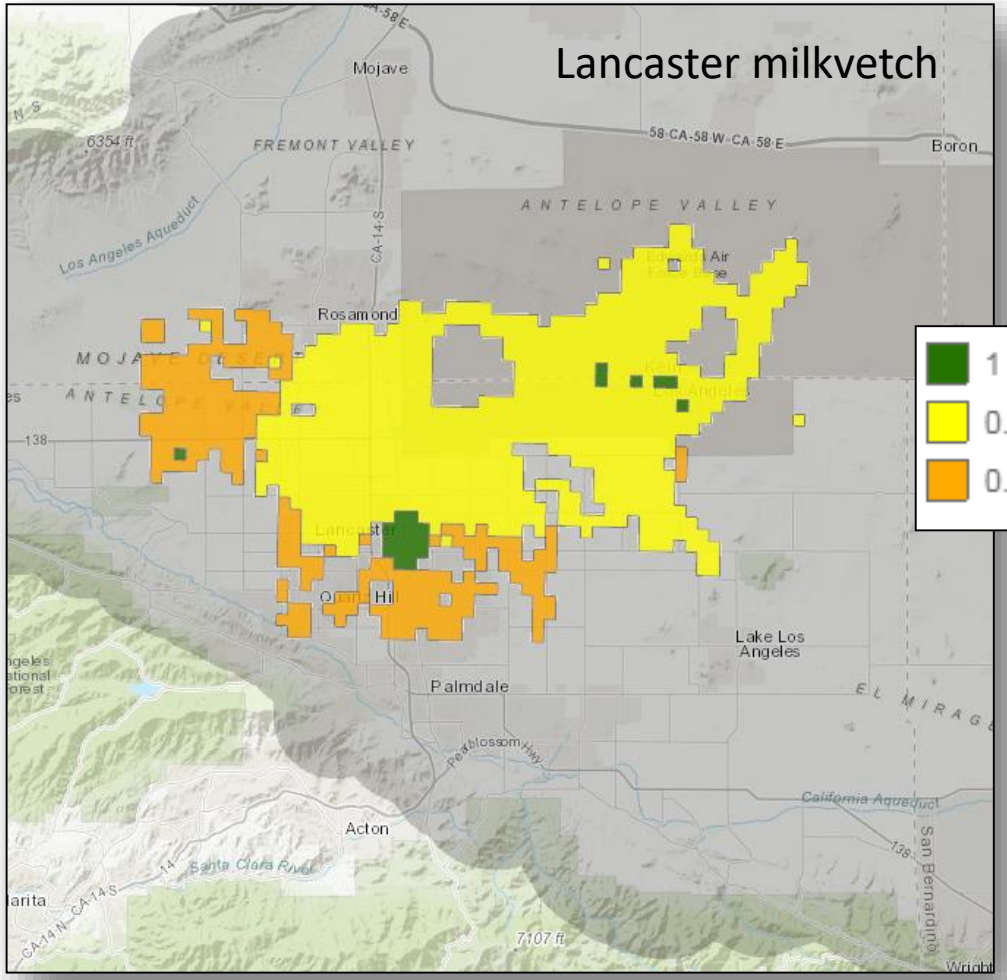
- Units of analysis are 1x1 kilometer reporting units
- The base conservation value for each target is based on its documented conservation status (weighted on an 8-1 scale based on Global and State conservation ranks)

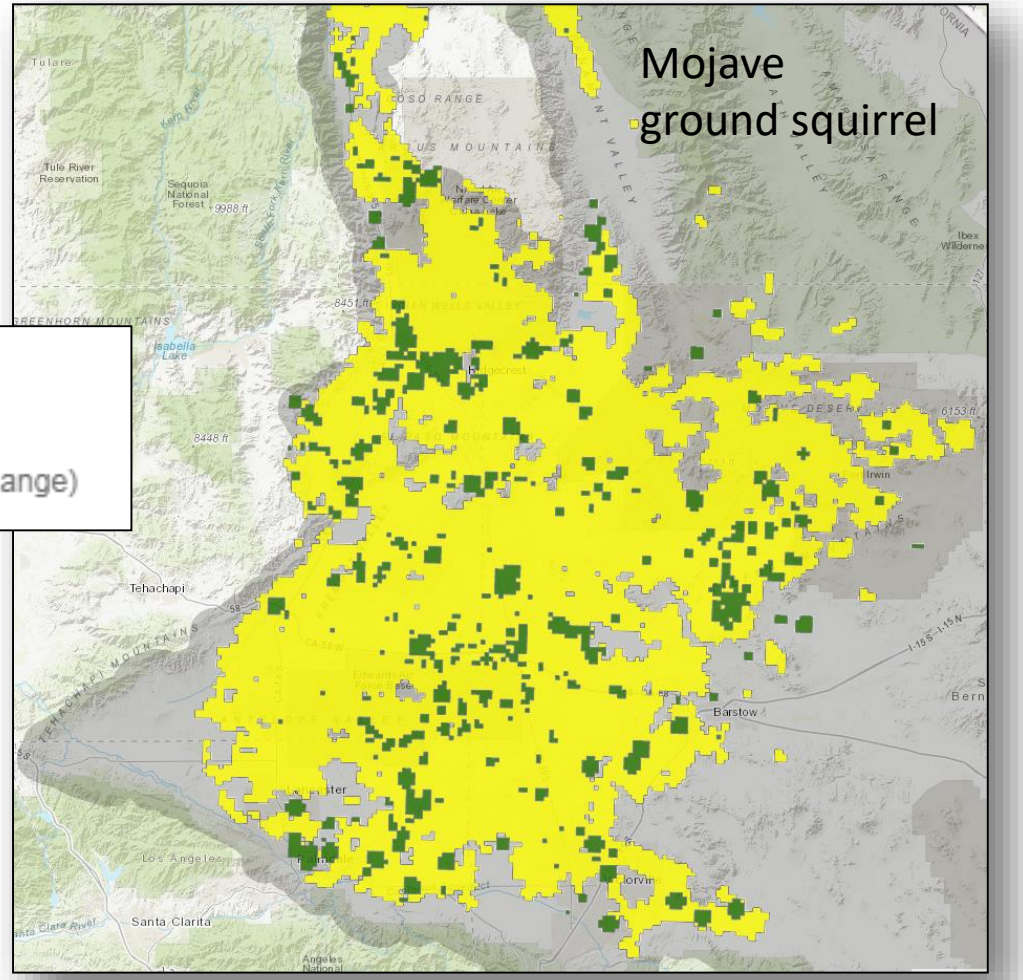


8 - S1,G1
7 - S1, G2
6 - S1, G3-G5
5 - S2,G2
4 - S2, G3-G5
3 - S3,G3
2 - S3, G4-G5
1 - S4-S5 (other)

Conservation Value Modeling

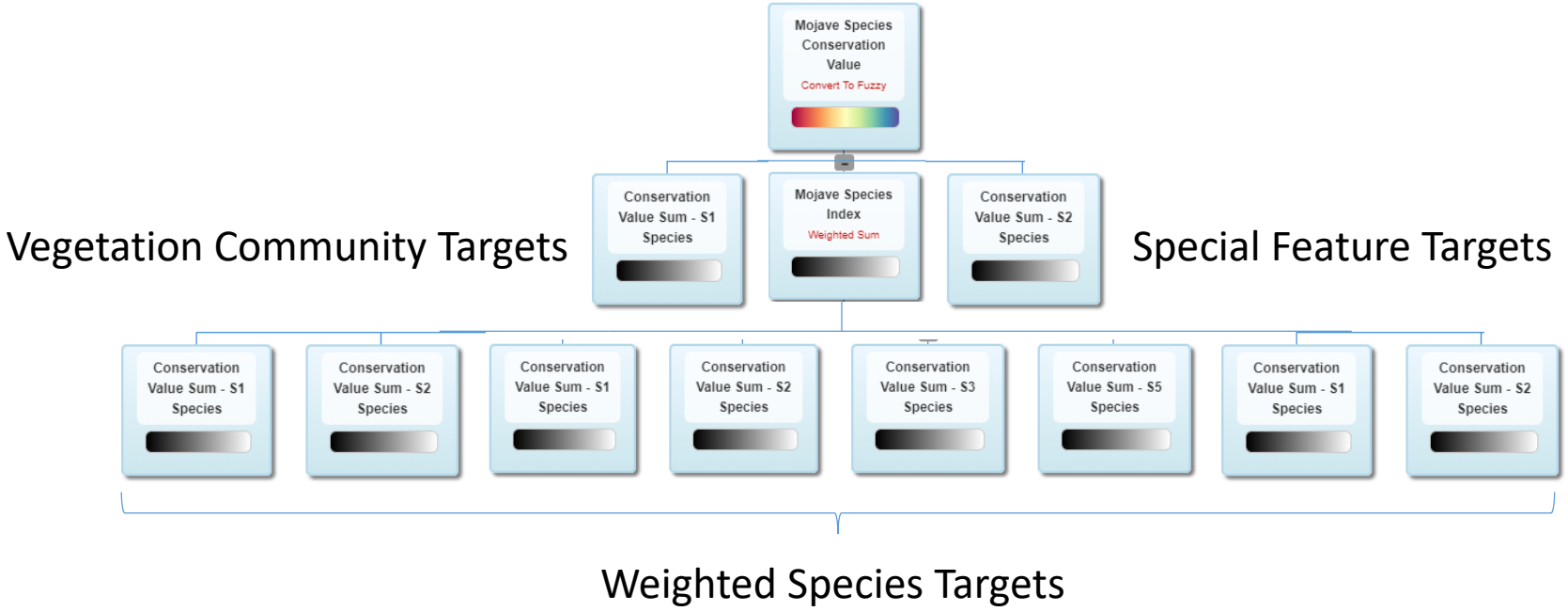
- The specific conservation value for each target is determined by probability of occurrence. CNDDB Location/Point Locations = 1, Expert or stat model output = 0.75, Range maps = 0.5

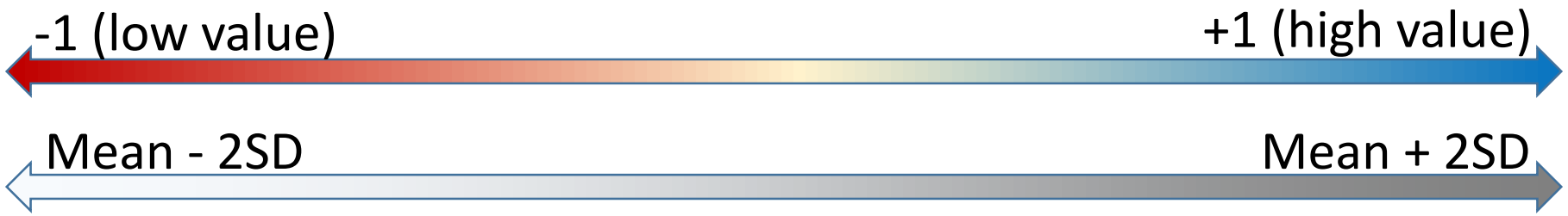




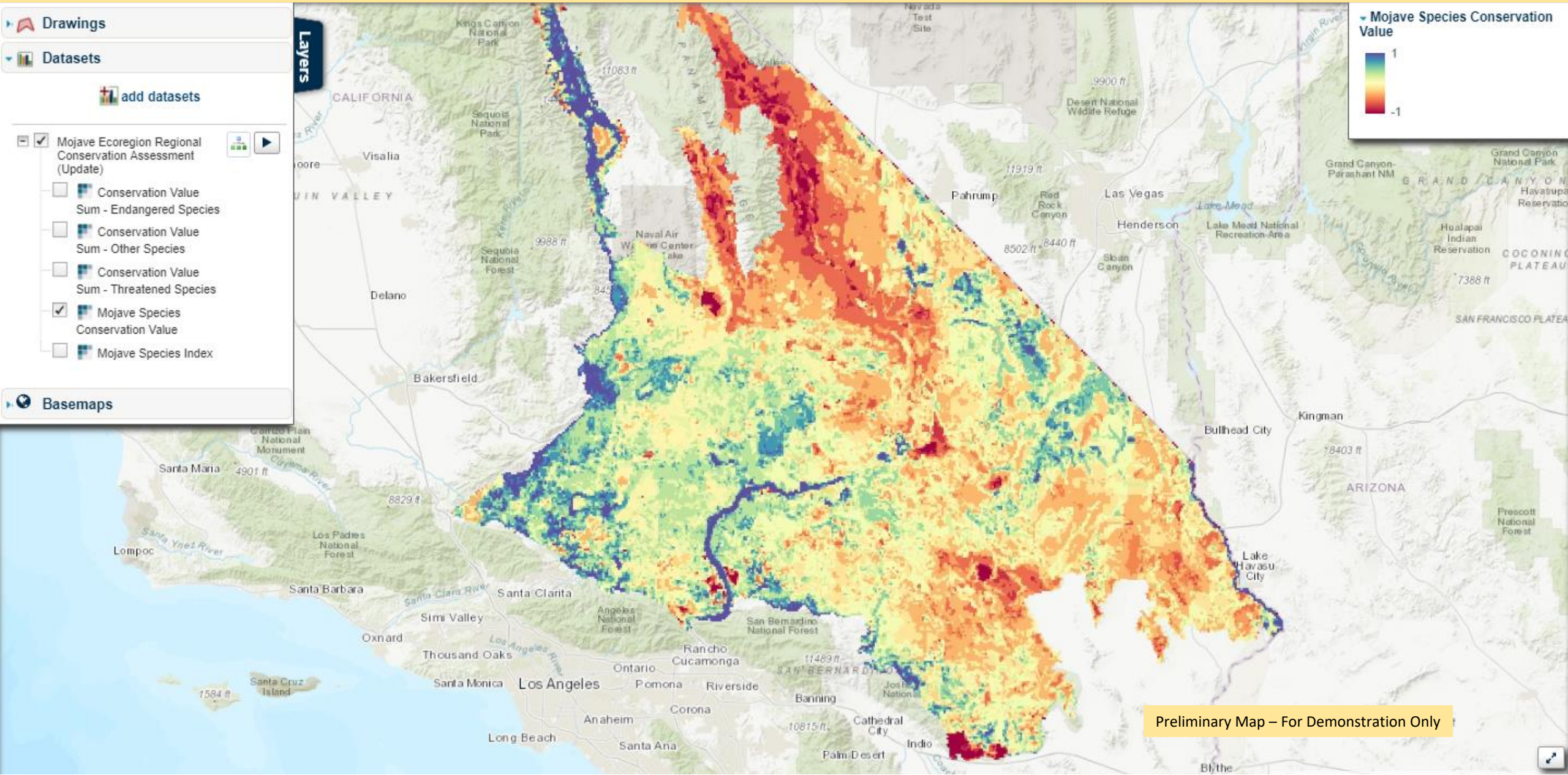
Conservation Value Modeling

Logic model represents conservation values for all conservation targets across the Mojave Ecoregion.

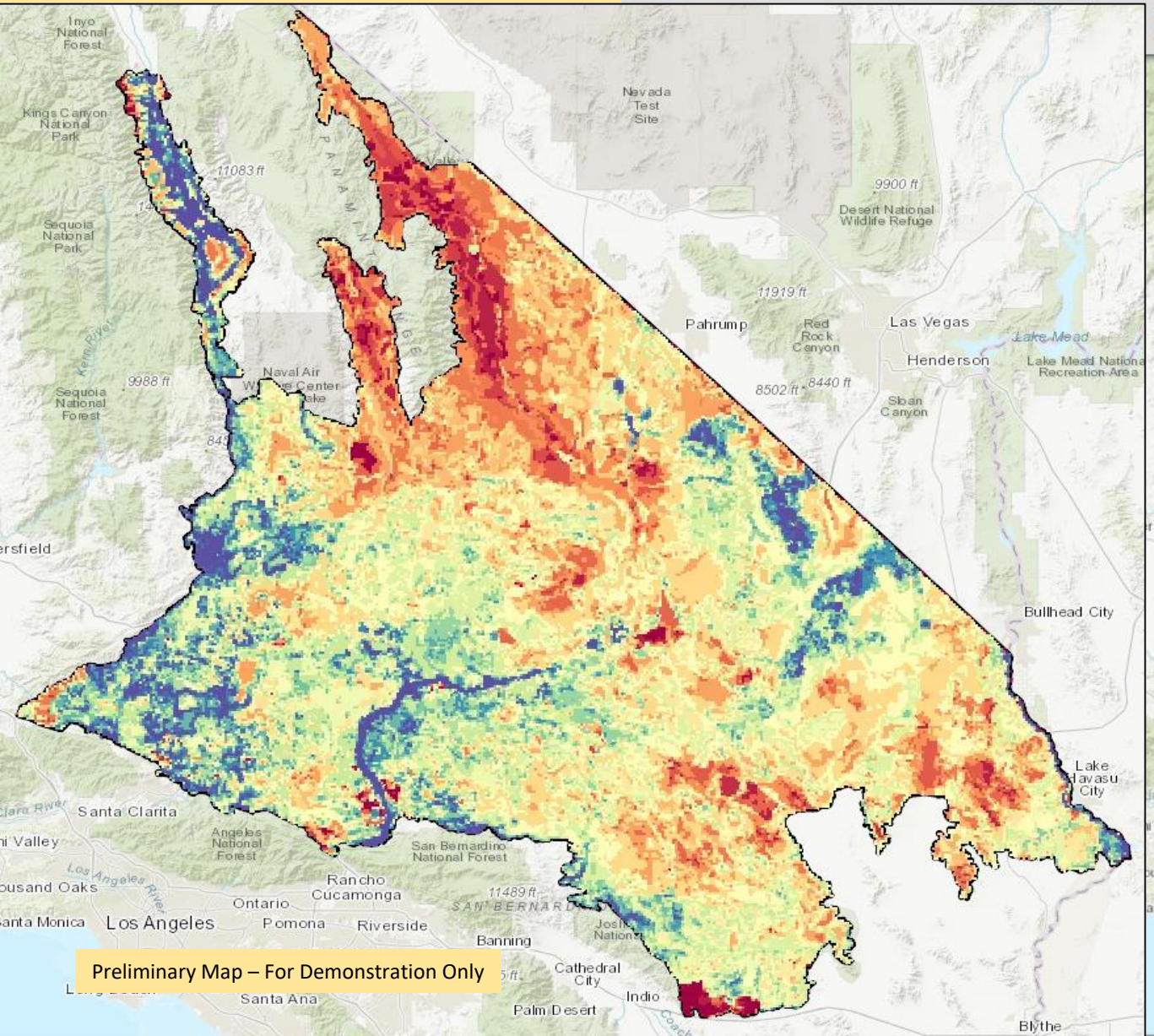


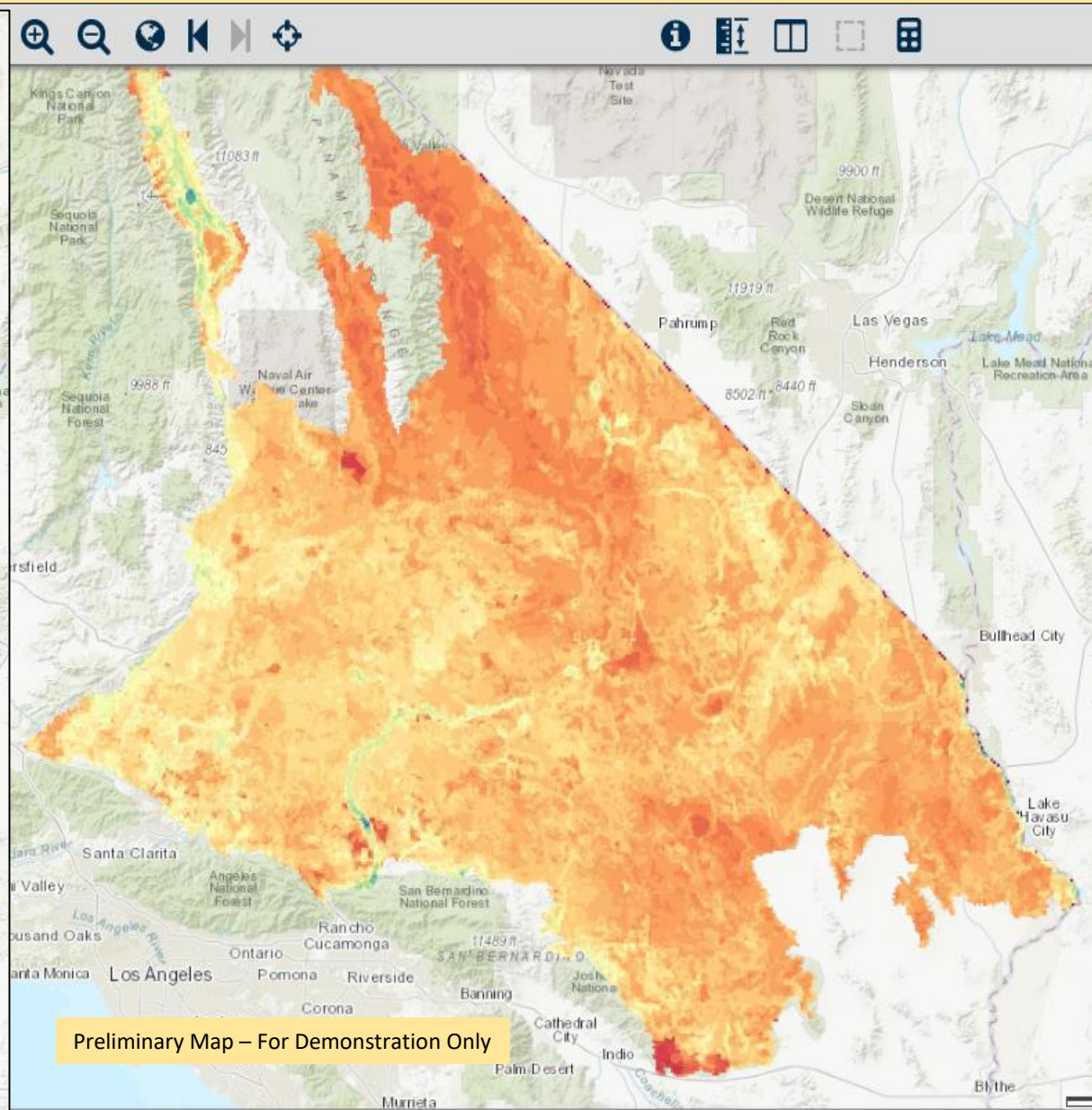


Ecoregional Conservation Value

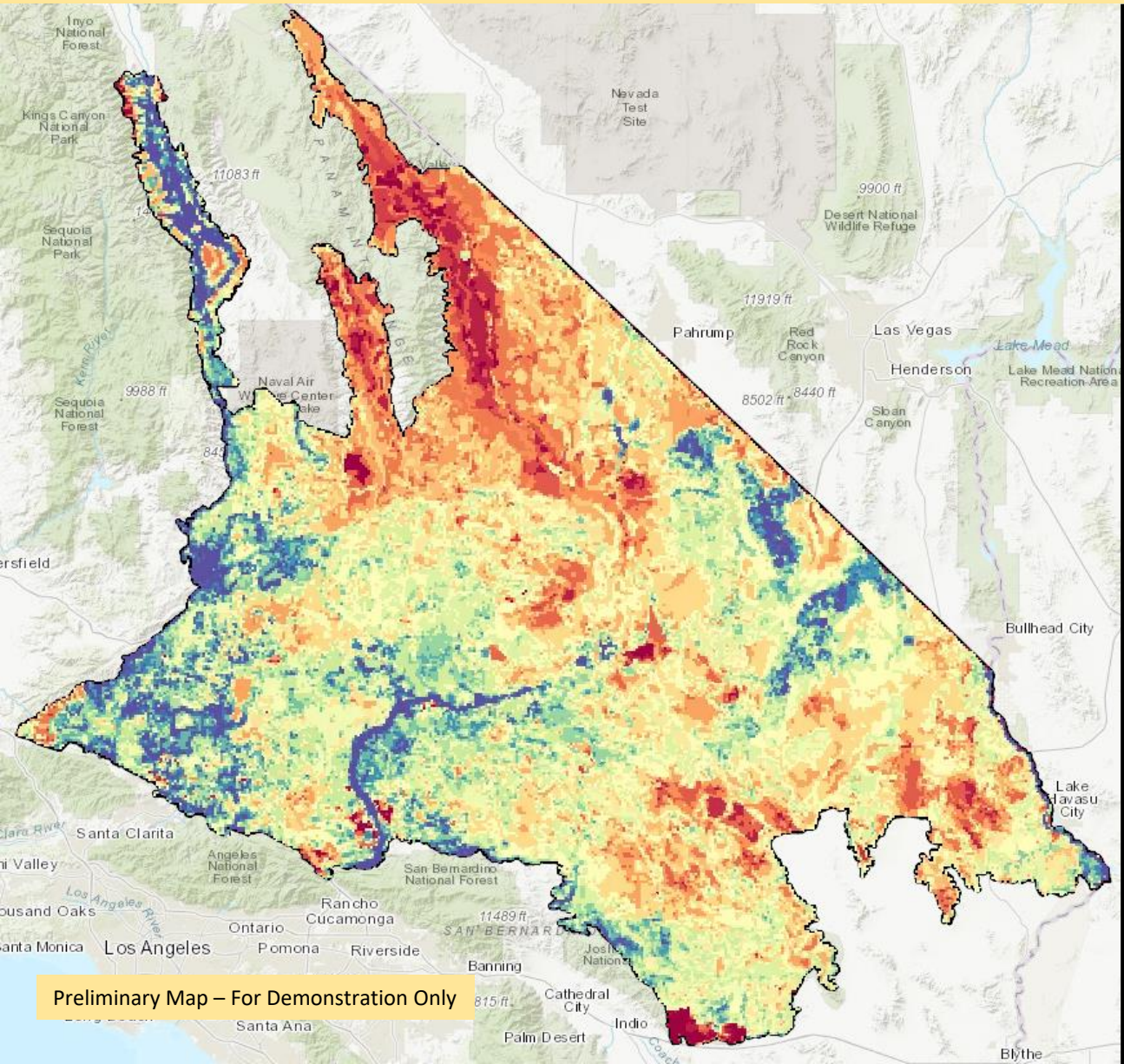


Conservation Value: Ecoregion Section & Subsection

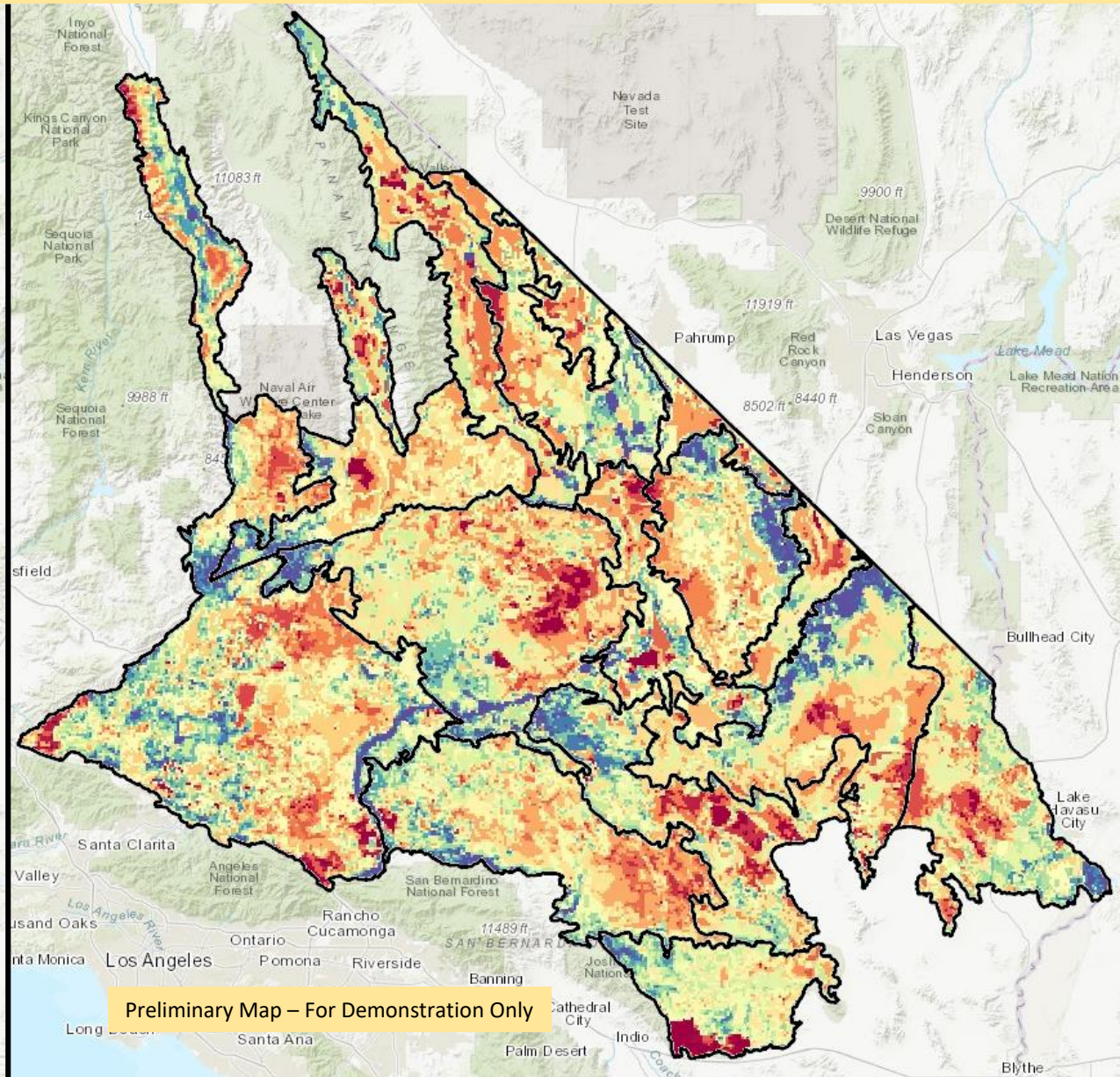




Conservation Value: Ecoregion Section & Subsection



Preliminary Map – For Demonstration Only

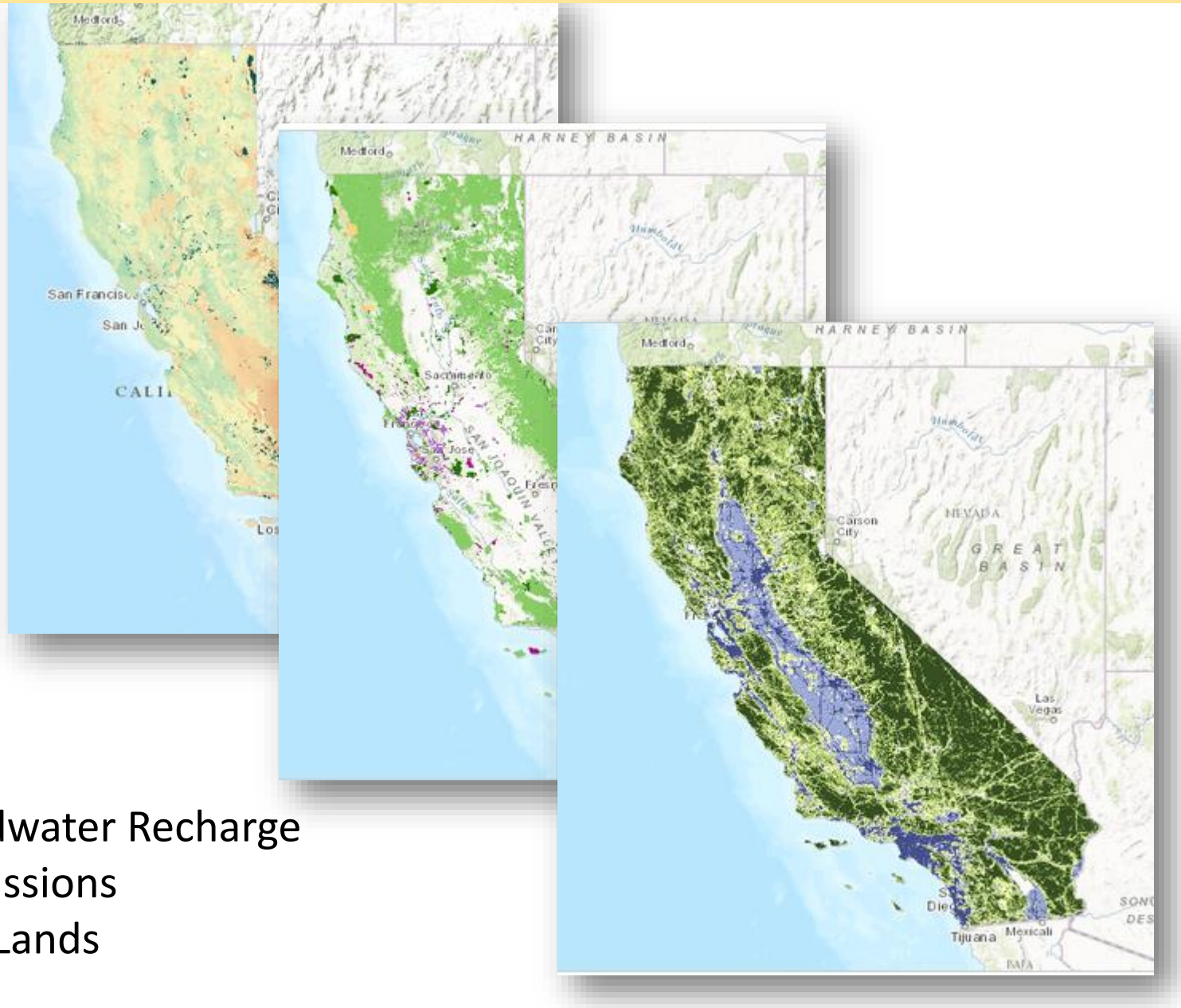


Preliminary Map – For Demonstration Only

Data Layers to Provide Planning Context

Planning Activities informed by:

- Opportunity Data Layers
  - Corridors and Connectivity
  - Protected Areas & Easements
  - Ownership
  - Landscape Intactness
  - SWAP Priority Areas
- Threat Data Layers
  - Climate Change
  - Probability of Development
  - Fragmentation
  - Invasive species
- Ecosystem Service Co-benefits
  - Water Management & Groundwater Recharge
  - Carbon Sequestration and Emissions
  - Prime Agricultural and Range Lands



Regional Conservation Assessment Planning Tool

Log In

- Select Ecoregion
- Select Targets
- Review Model
- Assess Areas
- Get Results

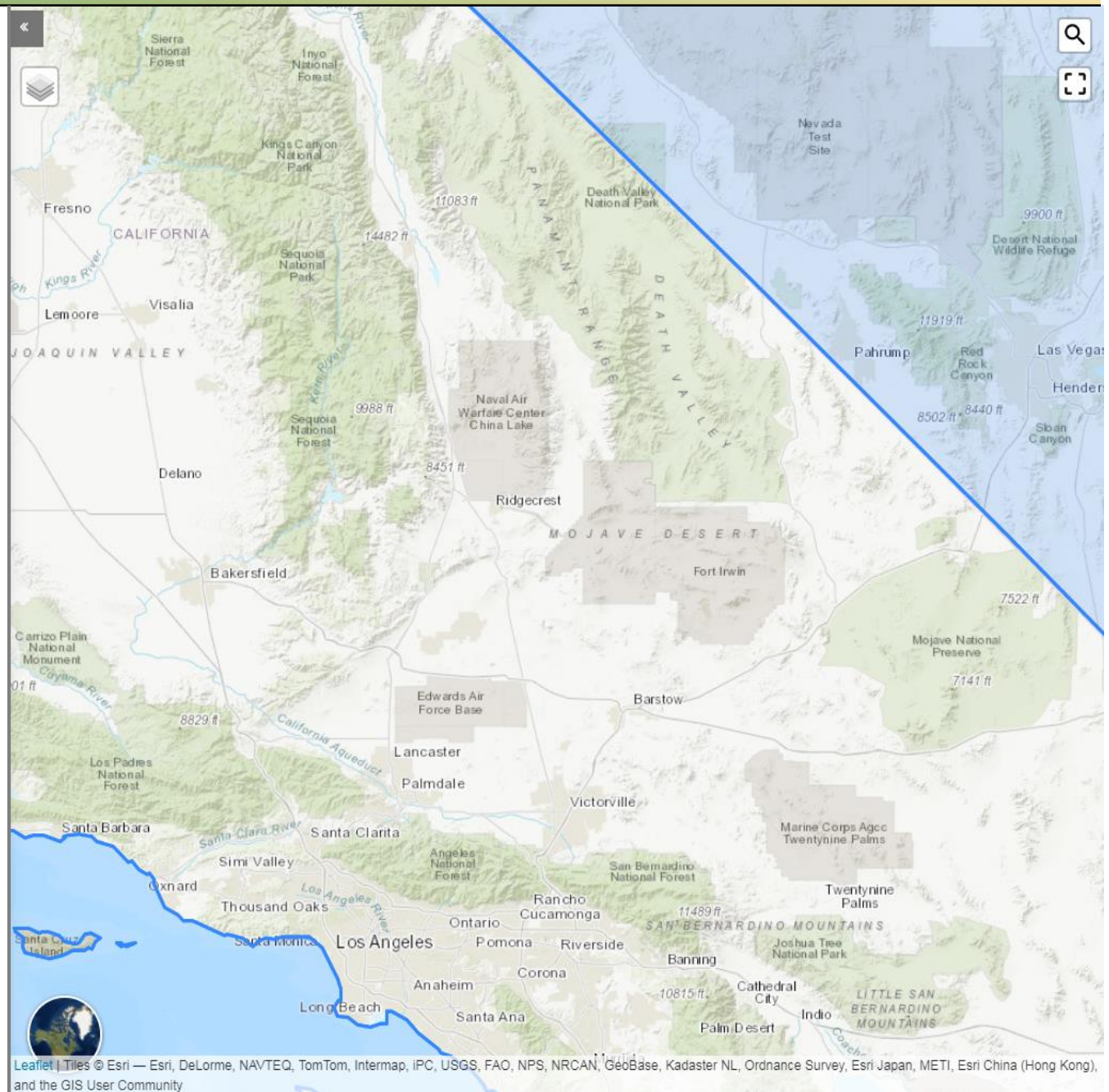
Introduction

What does this tool do?

Brief description text

Getting Started

Brief description text



Regional Conservation Assessment Planning Tool

Log In

Select Ecoregion

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Get Results

Select Ecoregion

Click on map to select ecoregion

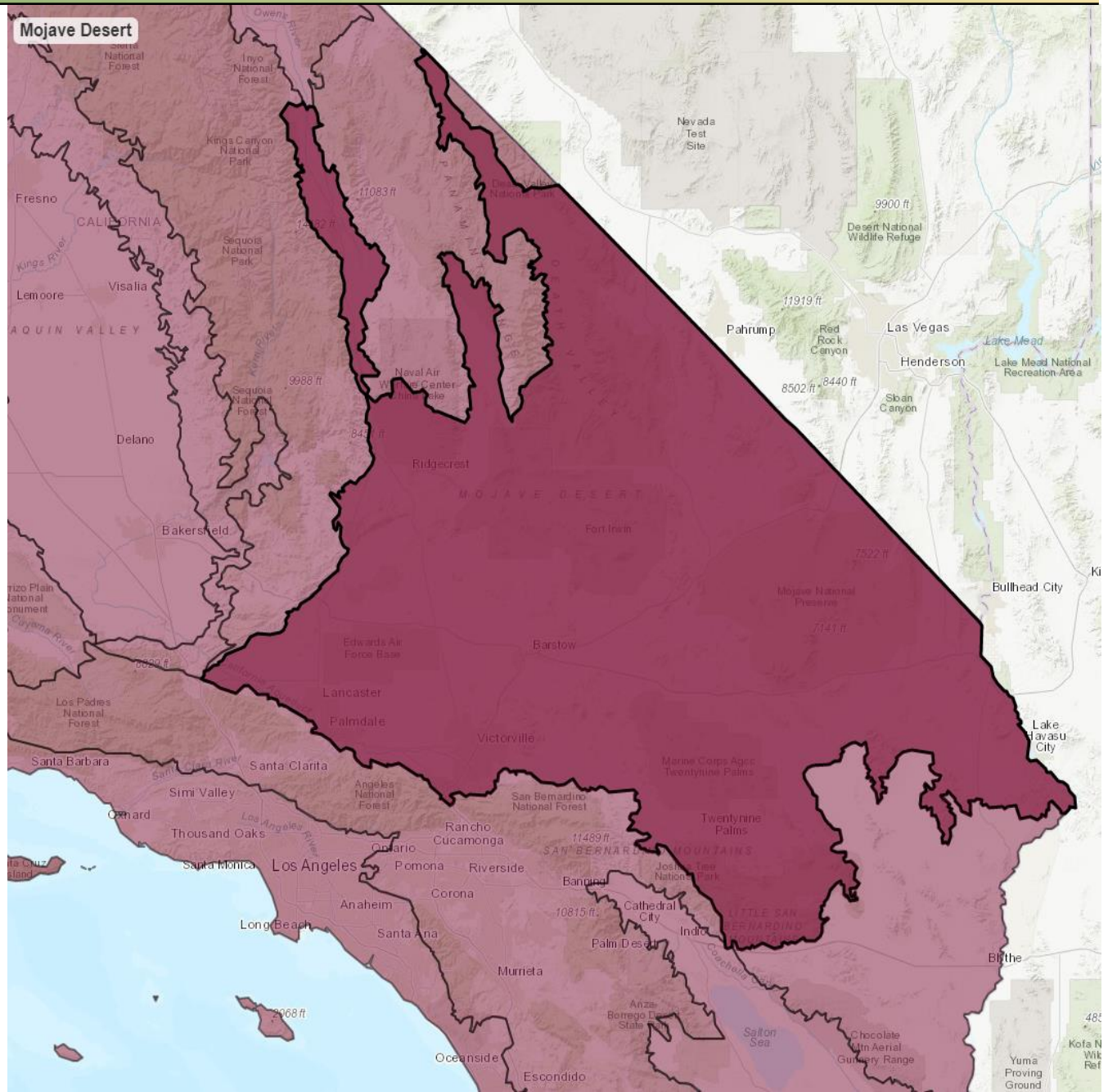
Regional Conservation Assessment Planning Tool

Log In

- Select Ecoregion
- **Select Targets**
- Review Model
- Assess Areas
- Get Results

Mojave Desert

General information about the ecoregion



Regional Conservation Assessment Planning Tool

Log In

Select Ecoregion

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Review Model

Assess Areas

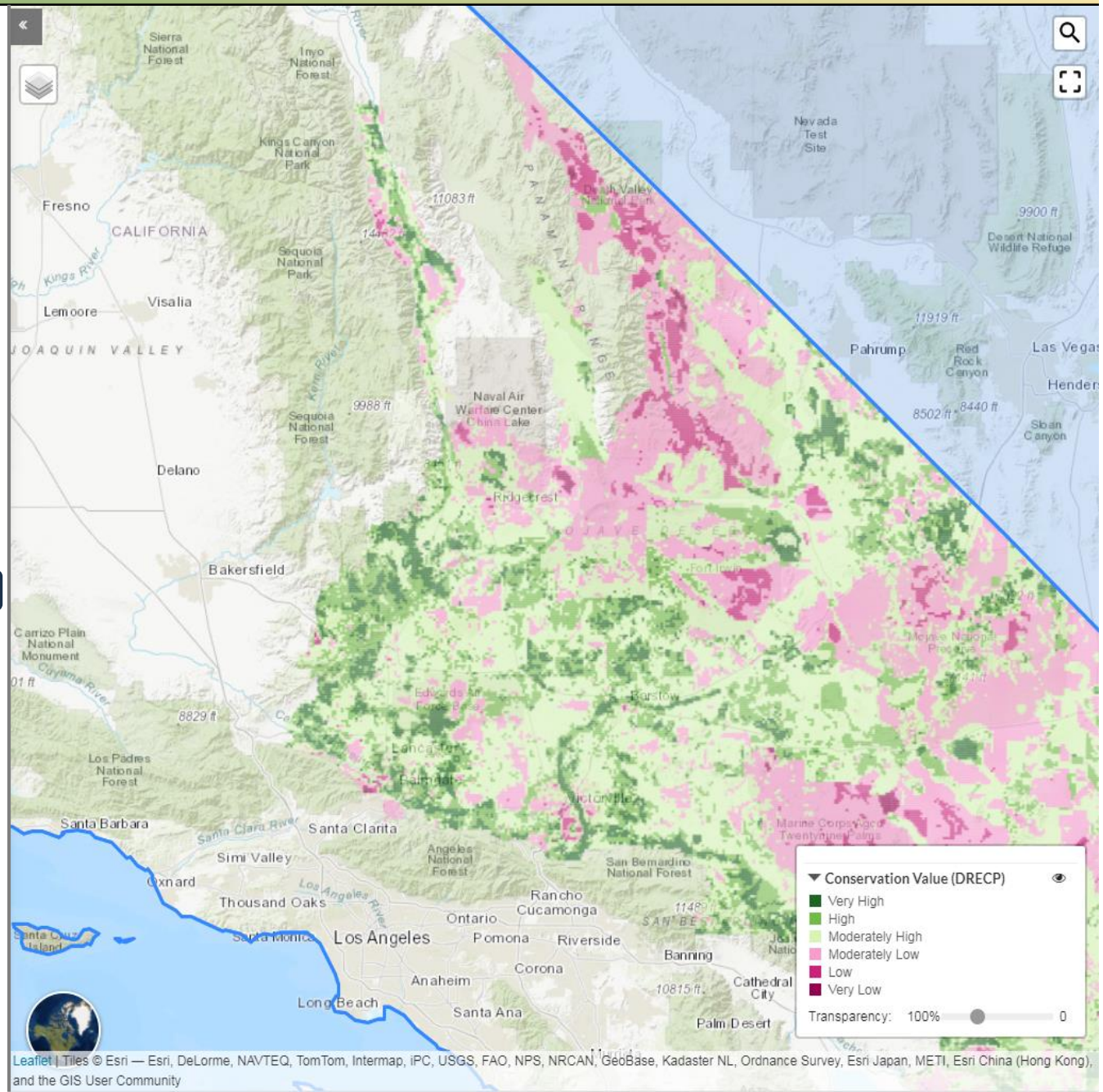
Get Results

1. Standard Conservation Value Maps

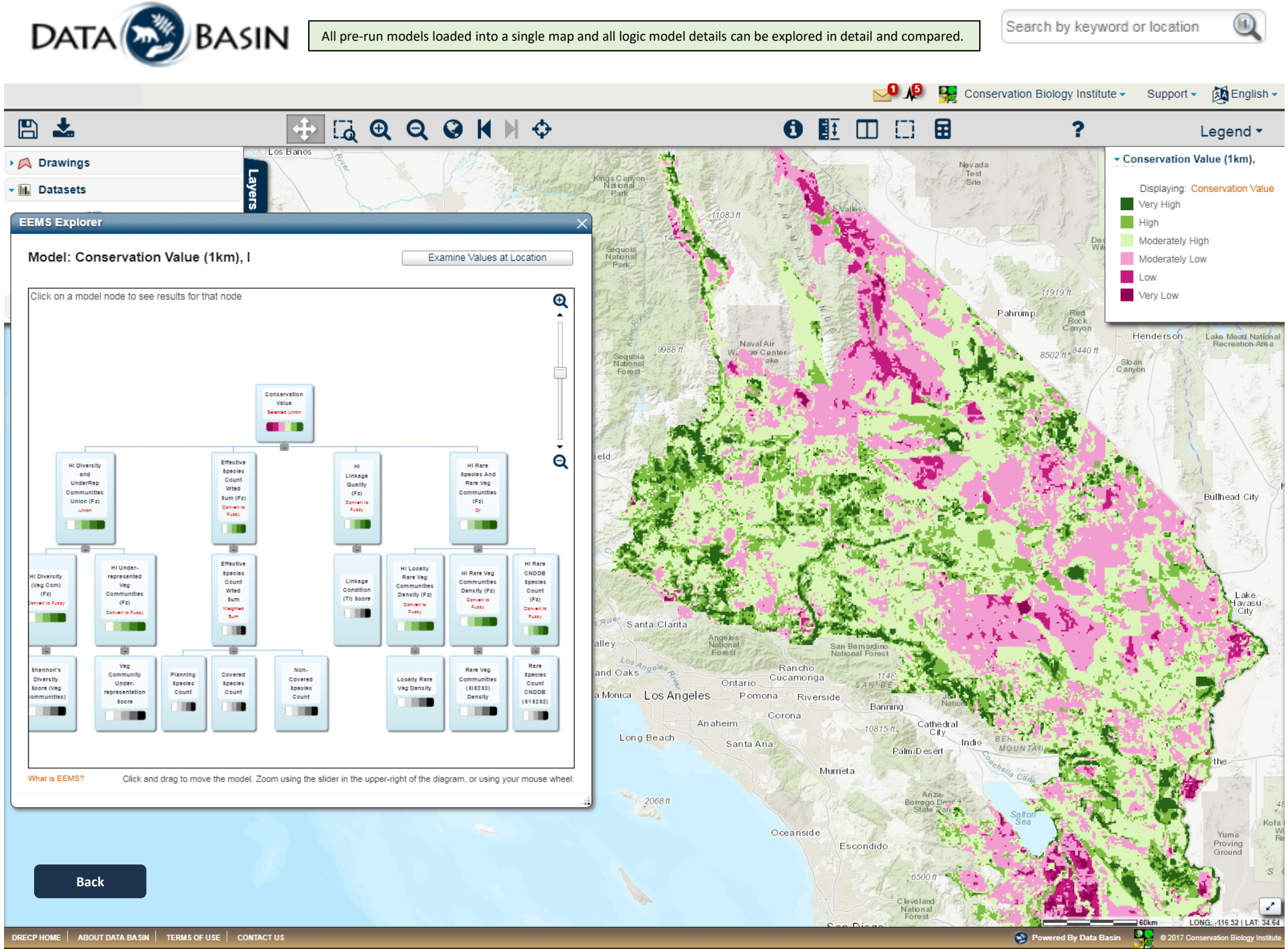
- ☑ All Targets (default)
- ☐ Legal Status Targets
- ☐ Conservation Status Targets
- ☐ Legal & Conservation Status Targets

2. Custom Selection of Conservation Targets

View Models in Data Basin



All pre-run models loaded into a single map and all logic model details can be explored in detail and compared.



Regional Conservation Assessment Planning Tool

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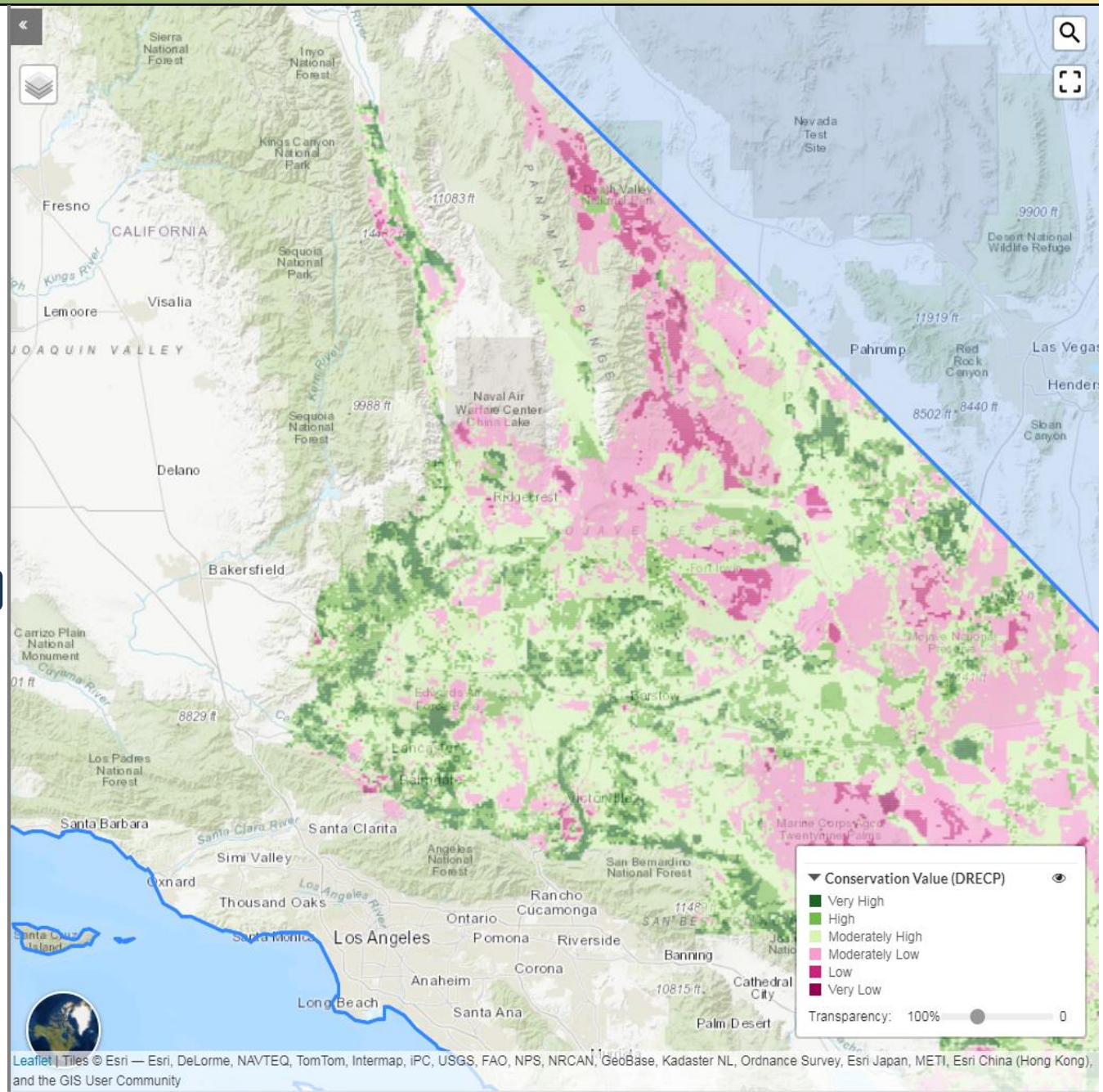
View Models in Data Basin



Regional Conservation Assessment Planning Tool

Log In

Select Ecoregion

Select Targets

Review Model

Assess Areas

Get Results

All Targets

2. Custom Selection of Conservation Targets

❶ Species

Mammals +
Birds +
Reptiles +
Amphibians +
Fishes +
Invertebrates +
Plants +

❷ Ecosystems

☑ Focal Ecosystems +

❸ Special Features

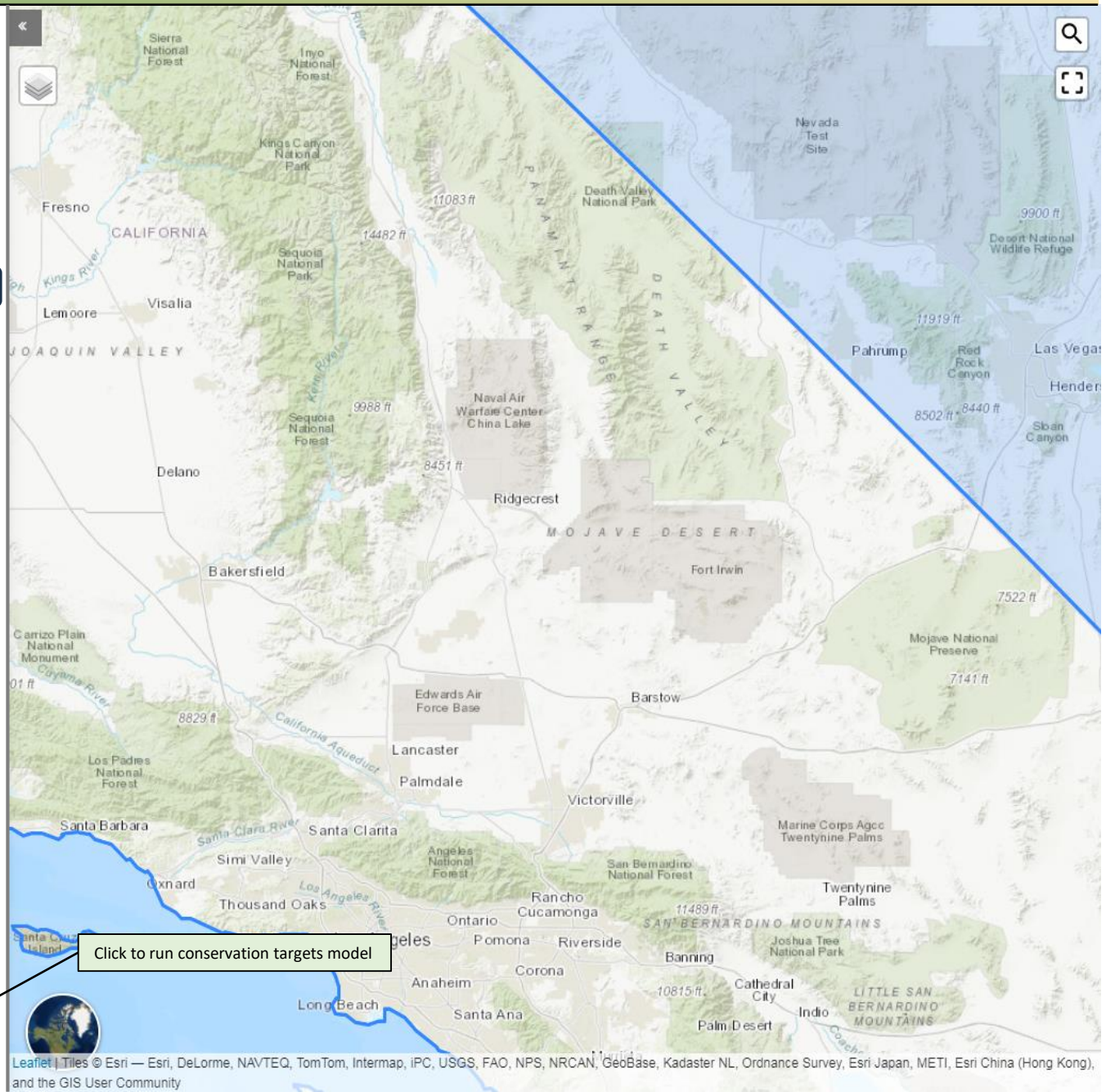
☑ Focal Special Features

☑ Sand Source Areas ☑ Spring and Seeps
☑ Sand Dunes ☑ Caves, Mines, and Cliffs

Back

Run Model

Click to run conservation targets model



Regional Conservation Assessment Planning Tool

Log In

Select Ecoregion

Select Targets

Review Model

Assess Areas

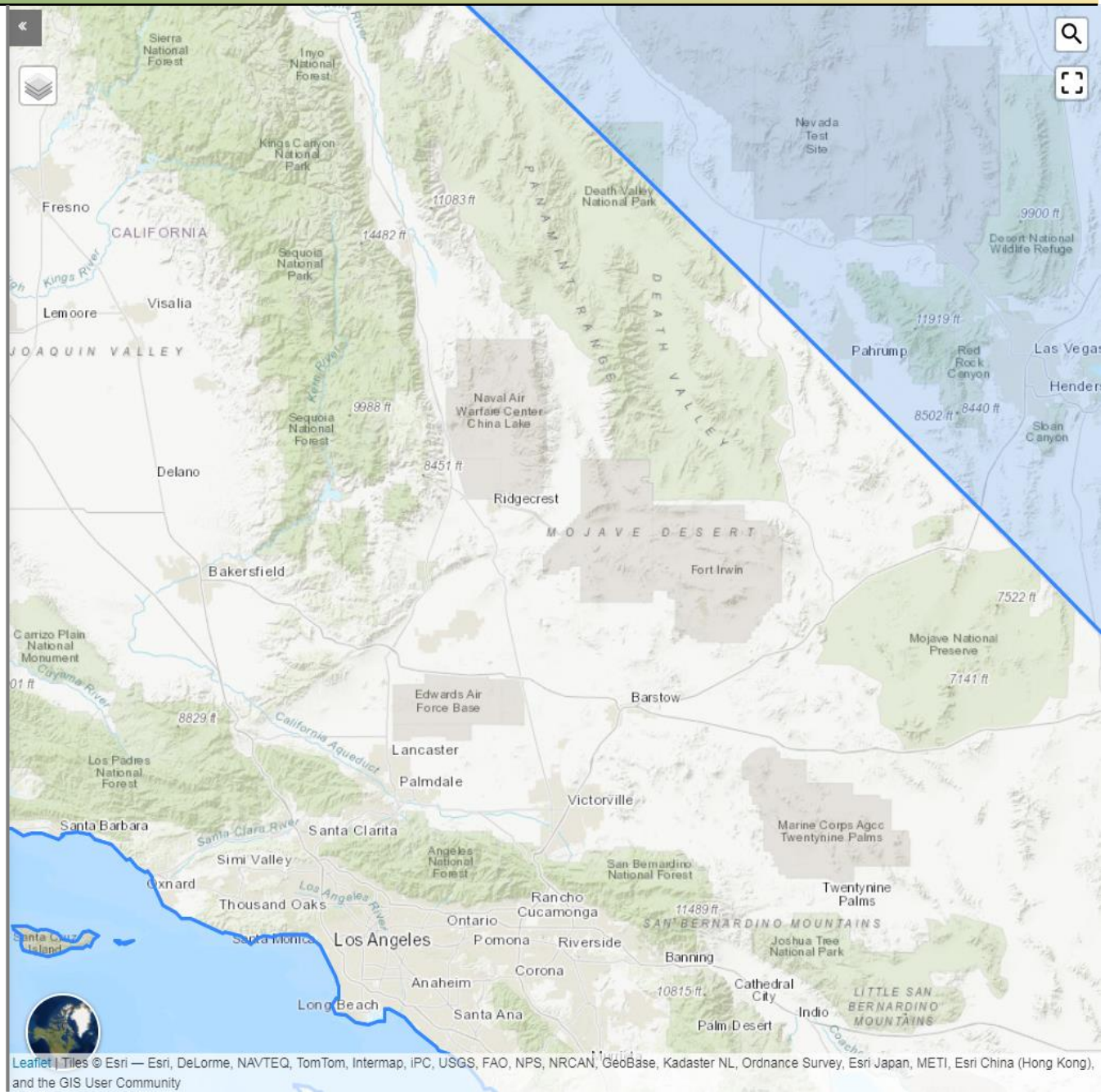
Get Results

2. Custom Selection of Conservation Targets

- ☑ Mammals +
- ☑ Birds +
- ☑ Reptiles +
- ☑ Amphibians +
- ☑ Fishes +
- ☑ Invertebrates +
- ☑ Plants +

- ☑ Mammals -
- ☑ Bats
  - ☑ Townsend's big-eared bat
  - ☑ California leaf-nosed bat
  - ☑ Long-legged myotis
  - ☑ Cave myotis
  - ☑ Big free-tailed bat
  - ☑ Pallid bat
- ☑ Rodents
  - ☑ Mojave ground squirrel
  - ☑ Yellow-eared pocket mouse
  - ☑ McKittrick pocket mouse
  - ☑ Tehachapi pocket mouse
  - ☑ Mohave River vole

Back | Run Targets Model



Regional Conservation Assessment Planning Tool

Log In

Select Ecoregion

Select Targets

Review Model

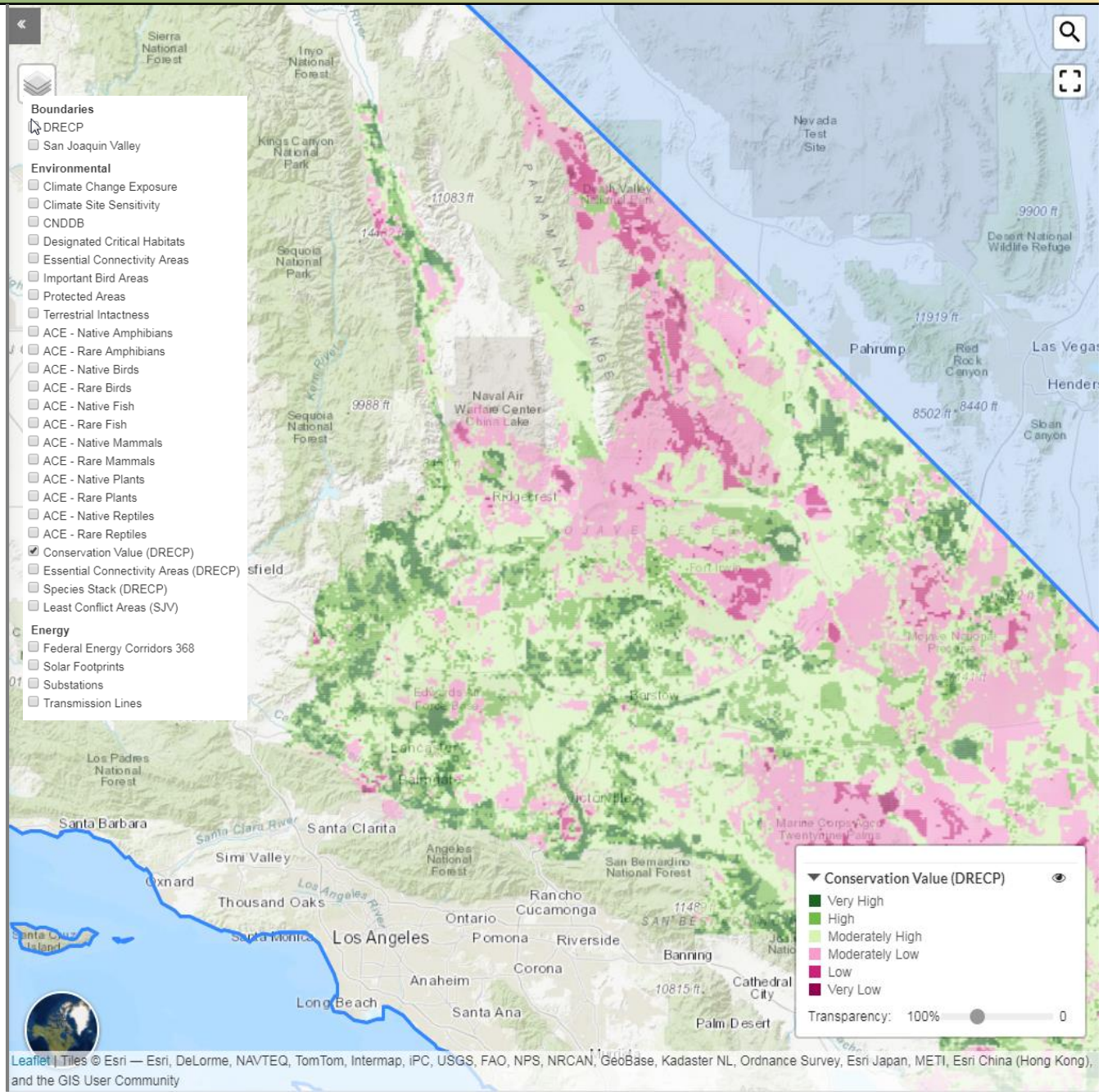
Assess Areas

Get Results

Go Back

Save

View in Data Basin



Regional Conservation Assessment Planning Tool

Log In

Select Ecoregion

Select Targets

Review Model

Assess Areas

Get Results

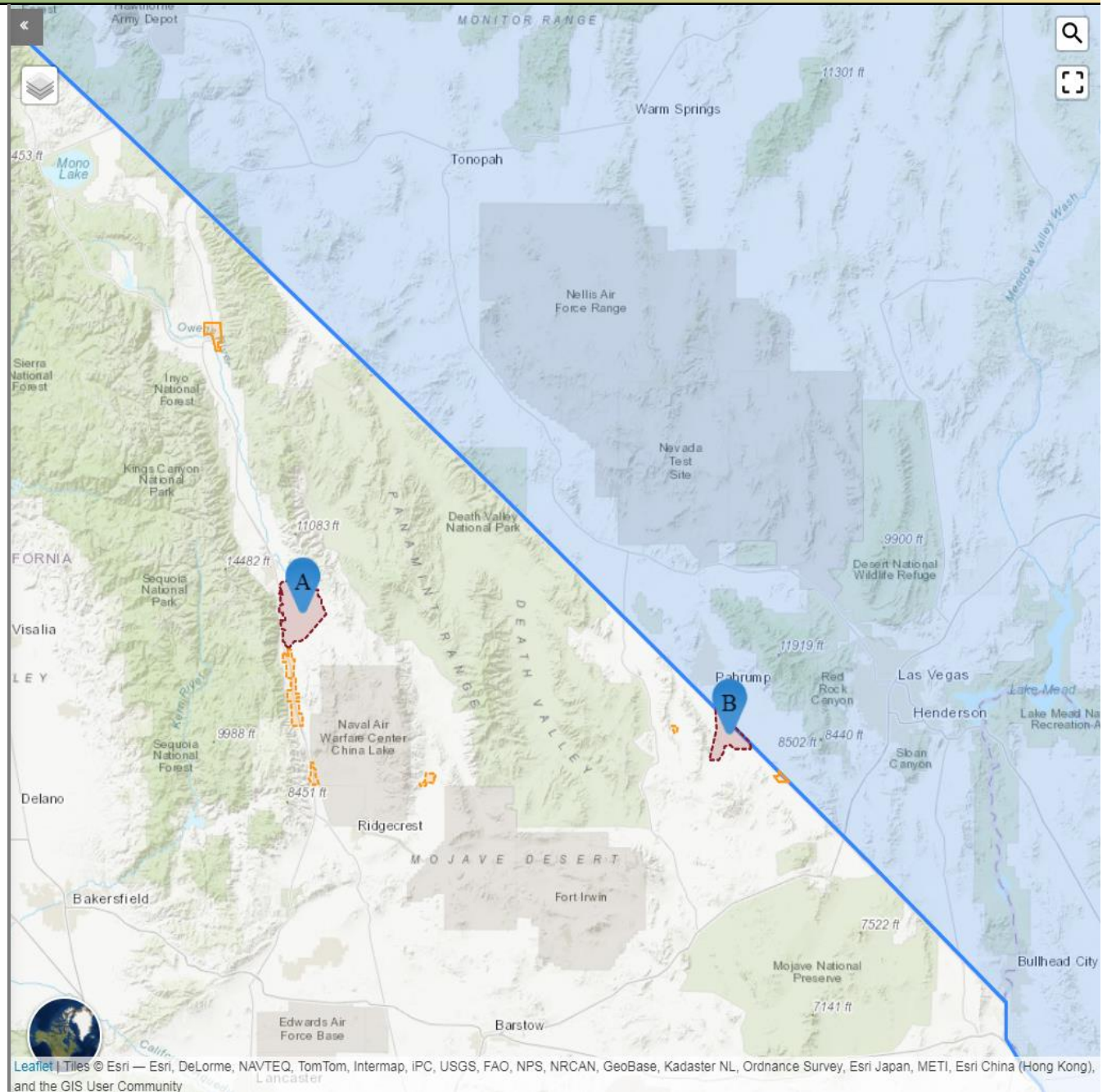
Click on *Draw* button to start creating your study areas

OR

Add study area from shapefile

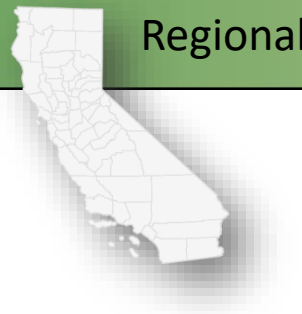
Add Shapfile

Save



Regional Conservation Assessment Planning Tool

Log In



Select Ecoregion

Select Targets

Review Model

Assess Areas

Get Results

Conservation Value

Conservation Value

Shape A

Very Low
0%

Low
0%

Moderately Low
27%

Moderately High
32%

High
19%

Very High
22%

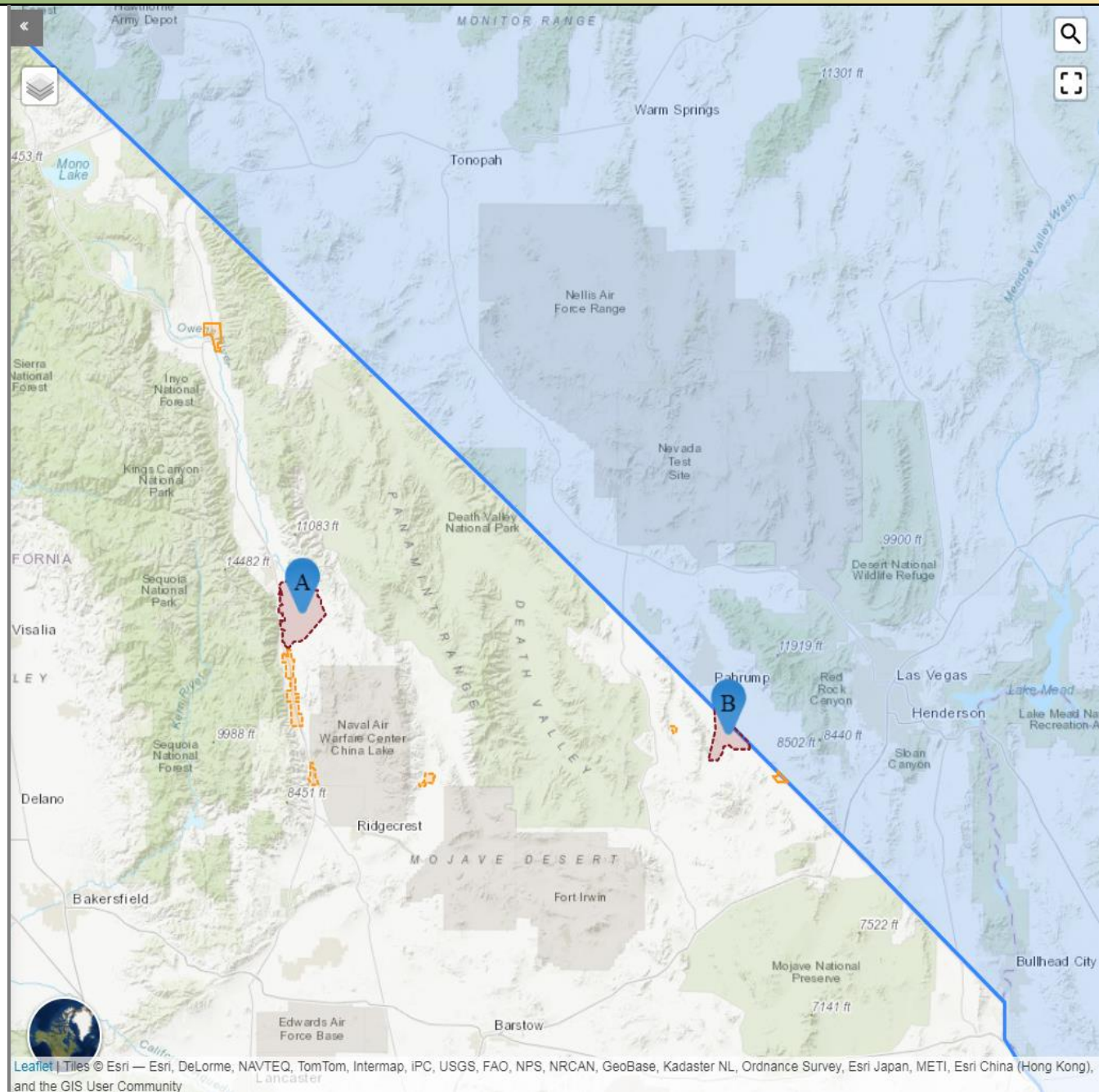
Shape B

Very Low
0%

Low
0%

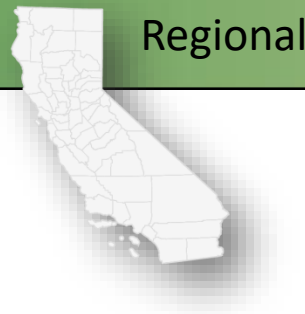
Download

Save



Regional Conservation Assessment Planning Tool

Log In



Select Ecoregion

Select Targets

Review Model

Assess Areas

Get Results

Conservation Value

Conservation Value

Shape A

Very Low
0%

Low
0%

Moderately Low
27%

Moderately High
32%

High
19%

Very High
22%

Shape B

Very Low
0%

Low
0%

Download

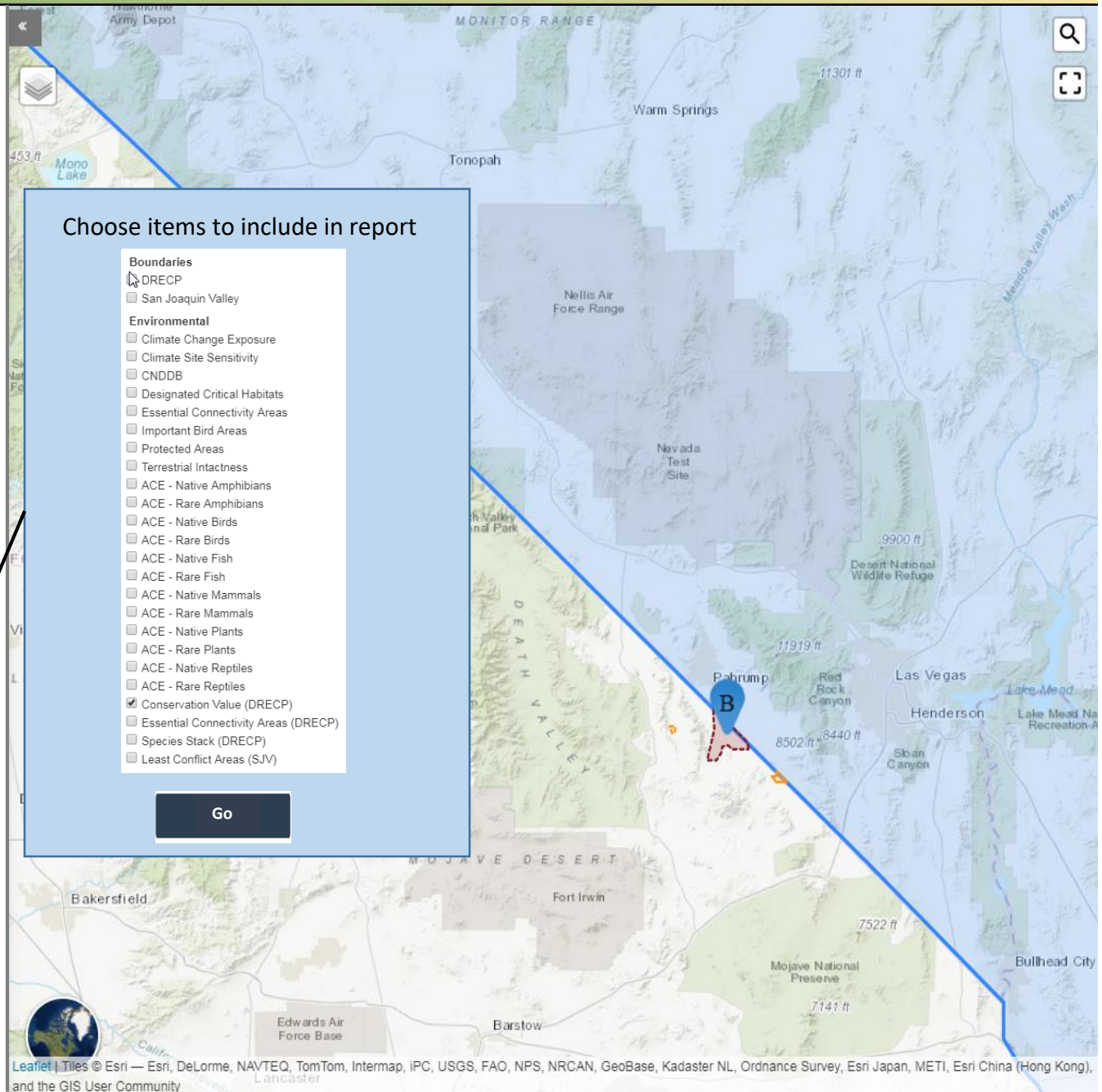
Save

Choose items to include in report

Boundaries
- DRECP
- San Joaquin Valley

Environmental
- Climate Change Exposure
- Climate Site Sensitivity
- CNDDB
- Designated Critical Habitats
- Essential Connectivity Areas
- Important Bird Areas
- Protected Areas
- Terrestrial Intactness
- ACE - Native Amphibians
- ACE - Rare Amphibians
- ACE - Native Birds
- ACE - Rare Birds
- ACE - Native Fish
- ACE - Rare Fish
- ACE - Native Mammals
- ACE - Rare Mammals
- ACE - Native Plants
- ACE - Rare Plants
- ACE - Native Reptiles
- ACE - Rare Reptiles
- [x] Conservation Value (DRECP)
- Essential Connectivity Areas (DRECP)
- Species Stack (DRECP)
- Least Conflict Areas (SJV)

Go



IRCAD RCA: Next Steps

- Refine the Conservation Value Model
- Refine the User Interface with Conservation Value Models and associated Map Products
- Complete the Demonstration Project
- Develop Project Evaluation and Reporting Tools
- Advance Statewide Implementation Strategy

Discussion Questions

We want your input regarding the future of RCAs and the IRCAD initiative. Please consider the following points during this presentation, for discussion during the next session.

1. What is most useful about standardized Regional Conservation Assessments and the IRCAD approach?

2. What are impediments to carrying out Regional Conservation Assessments across the State?

3. How can RCAs be improved and brought into practice?

4. How can your organization help to mainstream the implementation of RCAs?